UltraAV® HDMI Splitter and Distribution Amplifier with HDBaseT Lite

Model Number:
K078C-008B

READ ME FIRST – SETUP INSTRUCTIONS

Thank you for purchasing the Accell UltraAV HDMI Distribution Amplifier. This product is designed to provide an exceptional performance and value. Please review the manual before operating and retain for future reference.

- CAUTION -

1. Ensure the unit has sufficient ventilation. Do not cover ventilation openings. Do not install in a confined space.
2. Do not operate near source of heat. Do not stack on top, underneath or between other heat generating unit/s including other amplifiers.
3. Unplug power adapter if not used for an extended period.
4. To prevent damage from power surges, the unit should be plugged into a surge protector or surge protected power source.
5. Do not use near liquid or areas of heavy moisture.
6. Clean unit with a clean and dry cloth only.
7. This unit cannot be serviced in the field. Contact Accell if service is required.
8. Do not open case, risk of shock - shock hazard.
9. Do not modify power cord or use the product if the power cord is damaged.

Introduction

The UltraAV HDMI Distribution Amplifier (Splitter) featuring HDBaseT Lite accepts a signal from a single HDMI enabled audio/video source and splits the single input into 4 HDMI outputs. The audio/video signal is mirrored on up to 4 HDMI displays, monitors, projectors or TV's.

Over-Current and Over-Voltage Protection

The circuit boards are equipped with both over-current and over-voltage protection and will automatically power down if encountered. The circuit boards will restore automatically once the excessive current or voltage has passed.

Package Contents

- HDMI Distribution Amplifier (Splitter)
- 4 HDBaseT Receivers
- Owners Manual
- 1 Power Adapter (for Matrix)
- 4 Power Adapters (for Receivers)
- 4-Pair IR-TX and IR-RX

1x4 HDMI Splitter with HDBaseT Lite
Model: K078C-008B

Specifications

- Connect 1 HDMI Source to up to 4 HDMI Displays
- Supports HD resolutions up to 1080P and 3D
- HDMI 1.4a, HDCP 1.2 compliant
- Data transfer speed of 6.75Gbps (225MHz)
- Audio formats supported: DTS-HD 7.1, Dolby True-HD 7.1
- Deep color up to 36-bit
- Maximum HDMI input/output cable length: Up to 16ft./5m
- Maximum Cat5e/6 output cable length: Up to 230ft./70m
- Shelf or surface mountable
- 9V DC, UL Listed Power Supply for 1x4 Splitter Unit
- 5V DC, UL Listed Power Supplies for Receiver Units (4 Total)
- Input AC: 50Hz to 60Hz, 100-240V
- Splitter dimensions: 10.9"W x 1.1"H x 6.1"D (277W x 28H x 156D mm)

specifications continued:

- Receiver dimensions: 4.4" W x .9" H x 3" D (112W x 23H x 76D mm)
- Operating temperature range: 5 to 131°F (-15 to 55°C)
- Operating humidity range: 5% to 90% RH (no condensation)

Setup

Note: All Cat5e/6 cables must be terminated to 568B standards.

Unsheilded (or properly terminated sheilded cable), solid core Cat5e, Cat6, Cat6e, Cat7 or Cat7e cable can be used. Stranded core is not suggested as it can reduce signal transfer. Recommended to use a continuous length of cable terminated at the matrix and receiver ends.

With the splitter power switch in the OFF position, connect the HDMI High Speed cable from the HDMI Output of the audio/video source to the HDMI Input located on the rear of the splitter.

Tips: Use the shortest length HDMI cables possible in each point in the installation. Use only High Quality and High Speed HDMI cables.

Next, connect a Cat5e/6 cable to the HDBaseT Out 1 port on the rear of the splitter. Connect the other end of the Cat5e/6 cable to the HDBaseT IN port on the rear of the HDBaseT receiver positioned near the TV. Run a short, High Speed HDMI cable from the HDMI Out port on the receiver to the HDMI In port on the TV. Plug a provided power adapter into an AC outlet and the other end into the HDBaseT receiver. Using the same steps, connect the remaining displays to the splitter.

Important: The HDBaseT Receivers when operating are warm and do require space around the housing for air circulation and coollng. Do not enclose the HDBaseT receiver. If placed behind a component such as a TV, ensure that there is adequate space for air circulation and ambient cooling **and** that there is no heat being generated and transmitted to the receiver from the other device. Damage caused by improper placement and overheating of the splitter or the receiver is not covered by the product warranty.

LED Indicator Lights

On initial power on, all LED lights on the splitter should come on solid blue. If less than the maximum number of Displays are connected to the splitter (not all the outputs are used) there will be no corresponding **HDMI OUT** blue LED for the unused output. Blue lights will only appear for devices connected.

The HDBaseT Receiver has 4 LED indicators:

1. HDCP: A solid LED indicates that the HDCP handshake between the source and display has been authenticated.
2. Link: Indicates a connection between the Matrix and the Receiver.
3. Mode: A flashing LED indicates correct operation of the system.
4. Power: A solid LED indicates power to the receiver.

Infrared Control (IR)

The 1x4 Splitter featuring HDBaseT Lite includes 4 pairs of Infrared Extenders, 4 IR Transmitters (IR-TX) and 4 IR Receivers (IR-RX). The front panel of the splitter has 1 IR-TX port. The HDBaseT Receivers each have one IR-TX port and one IR-RX port. Using the included extenders, you can configure the IR to control the source devices when present at any of the displays.

The port on the splitter labeled "IR" accepts an optional IR-TX, sending commands received from the IR-RX at the display end (HDBaseT receiver) to the IR "eye" on a source.

Plug an IR-RX into the IR-RX Port of the HDBaseT receiver. Place the end of the IR-RX in an area that is in line-of-sight to the remote control.

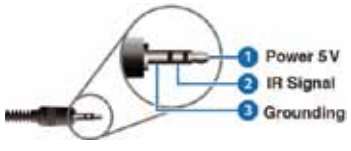
Plug an IR-TX into the IR port on the splitter. Position the end of the IR-TX in line of sight to the IR "eye" of the source device. The IR "eye" is normally a small circle on the face of the source devices that receives the IR signal from its remote control.

To control multiple source devices with one IR-TX, stack the sources together and position the IR-TX, which is plugged into the IR port on the splitter, so that all the source devices can receive the IR signal (Blast) from the IR-TX.

Note: A remote control is not included. A remote control programmed to control the source device/s is required for IR operation.

Ultra-IR Receiver (5 ft.)
Dual Frequency: 38KHZ-60KHZ
PN: B164B-002B

Ultra-IR Transmitter (5 ft.)
Dual Frequency: 38KHZ-60KHZ
PN: B164B-003B



Ultra-IR Receiver and Transmitter Pin Assignment

Troubleshooting

Q. One of the display does not show a picture or output audio.
A. Check the displays input setting to ensure it is set to receive a signal from the connected HDMI port.

Q. One or more of the connected displays will not display a picture while one or more of the displays do display a picture:
A1. Press the **RESET** button on the front of the splitter to reset it. Alternatively turn off the power to the splitter, source and displays. Wait 60 seconds. Turn the source on and the displays on. Turn the splitter on.
A2. The HDMI cables on the non-functonal display/s cannot support their long length. Use only high-quality High Speed HDMI cables. Keep the cable length as short as possible. Test by locating the non-working display close to the splitter. Use a short HDMI cable to connect the switch to the TV. A working TV using a short HDMI cable indicates an issue with the HDMI cable.

Q. The splitter is not down sampling the video and some of the TV's are not displaying a picture.
A1. Go into the TV's setup and configure the resolution to match all the connected TV's. The TV's should share the same resolution.
A2. In the source devices menu options set the source device to output a resolution that matches all the connected displays.

Q. My TV's resolution are not optimized.
A. The splitter will query the displays and provide the highest common video resolution amongst them. Example: Using a 1080p source, if 3 of the displays support a maximum resolution of 1080p and 1 display supports a maximim resolution of 720p, all 4 display will operate at a resolution of 720p. If the 720p TV in the example is then turned off, the other 3 displays can then operate in 1080p resolution. Press the **RESET** button on the front panel of the splitter to refresh the configuration. The three 1080p TV's will refresh (flicker) then each will display a 1080p resolution picture.

Q. My TV's resolution are not optimized.
A. The splitter will query the displays and provide the highest common video resolution amongst them. Example: Using a 1080p source, if 3 of the displays support a maximum resolution of 1080p and 1 display supports a maximim resolution of 720p, all 4 display will operate at a resolution of 720p. If the 720p TV in the example is then turned off, the other 3 displays can then operate in 1080p resolution. Press the **RESET** button on the front panel of the splitter to refresh the configuration. The three 1080p TV's will refresh (flicker) then each will display a 1080p resolution picture.

Q. Get the message "This protocol is not supported" or other error message.

A. See answer A1 above and repeat the steps outlined.

ASSISTANCE: Questions regarding this product or its product warranty, please check out our Web site at: www.accellcables.com. Customer service can be reached by email at support@accellcables.com or phone at 510-438-9288, toll free 877-353-0772 (M-F 9am-5pm PST).

1-YEAR MANUFACTURERS WARRANTY

The Accell UltraAV Splitter is warranted for one year from date of purchase to be free of defects in material and workmanship. In the event of such defects, the Accell product will be repaired without charge or replaced with a new one at our option, if delivered to Accell Corporation prepaid, together with a copy of the sales receipt indicating the proof of purchase date and place of purchase. This warranty excludes defects due to normal wear, abuse, shipping damage, or failure to use the product in accordance with the instructions. ACCELL CORPORATION SHALL NOT BE LIABLE FOR DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, INTERRUPTED OPERATION OR COMMERCIAL LOSS, OR ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE. YOU AGREE THAT ACCELL'S MAXIMUM LIABILITY ARISING FROM ANY PRODUCT SOLD BY ACCELL SHALL NOT EXCEED THE PRICE OF SUCH PRODUCT. SOME JURISDICTIONS DO NOT ALLOW THE LIMITATION OF EXCLUSION OF LIABILITY FOR CERTAIN DAMAGES, SO THE ABOVE MAY NOT APPLY TO YOU TO THE EXTENT SUCH JURISDICTION'S LAW IS APPLICABLE TO THIS AGREEMENT. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

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WARRANTY RETURNS PROCEDURE

Contact Customer Support to obtain a Return Authorization (RMA) number. RMA numbers are valid for 30 days from the date of issuance. We are unable to accept returns without an RMA number. Returns without an RMA number clearly printed on the outside of the package will be refused and returned unopened. All returns must be shipped prepaid at the expense of the shipper.

Accell assumes no responsibility for any inaccuracies and liability for direct, indirect, special, incidental, or consequential damages as a result. Due to ongoing improvements, Accell reserves the right to make changes to hardware, packaging and any accompanying documentation without prior written notice.

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